

Call For Innovation: Forestry Residue Management

Q&A Session

June 22nd, 2023

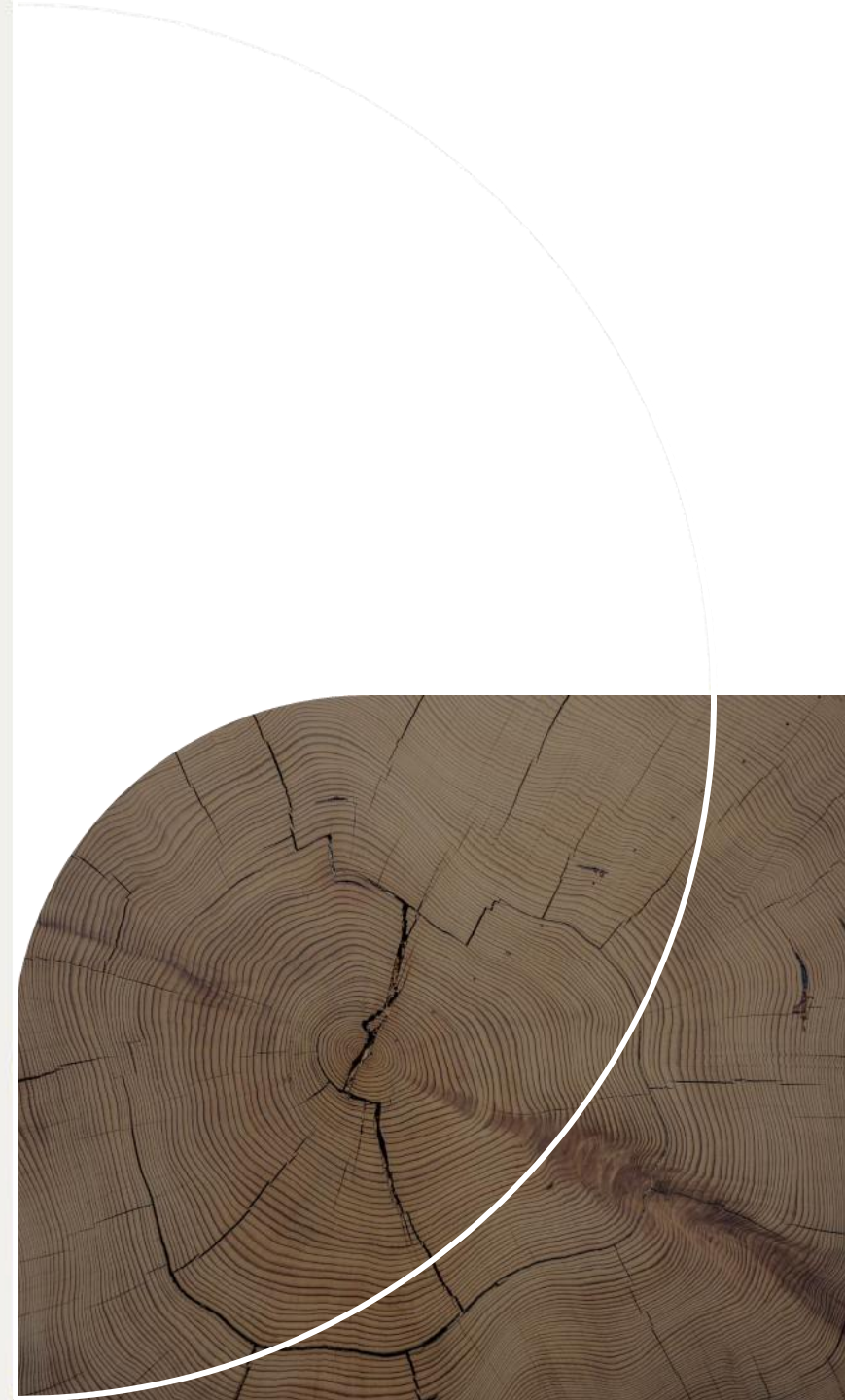
Presenters :

Ged McLean, Executive Director, CICE

Mark Warren, Director, Business Innovation, FortisBC

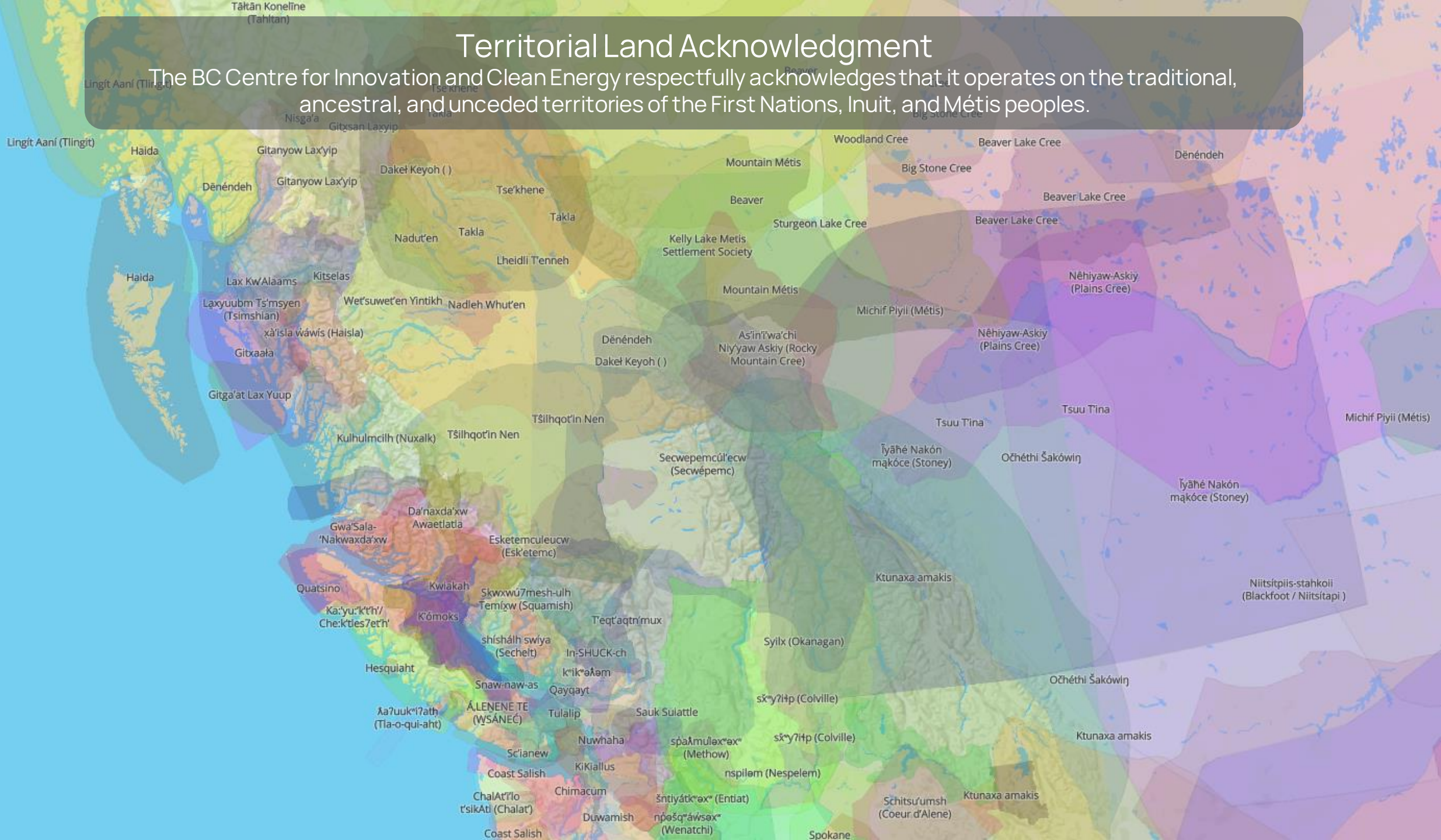
Ashley Callister, Venture Associate, CICE

FRM2023@cice.ca



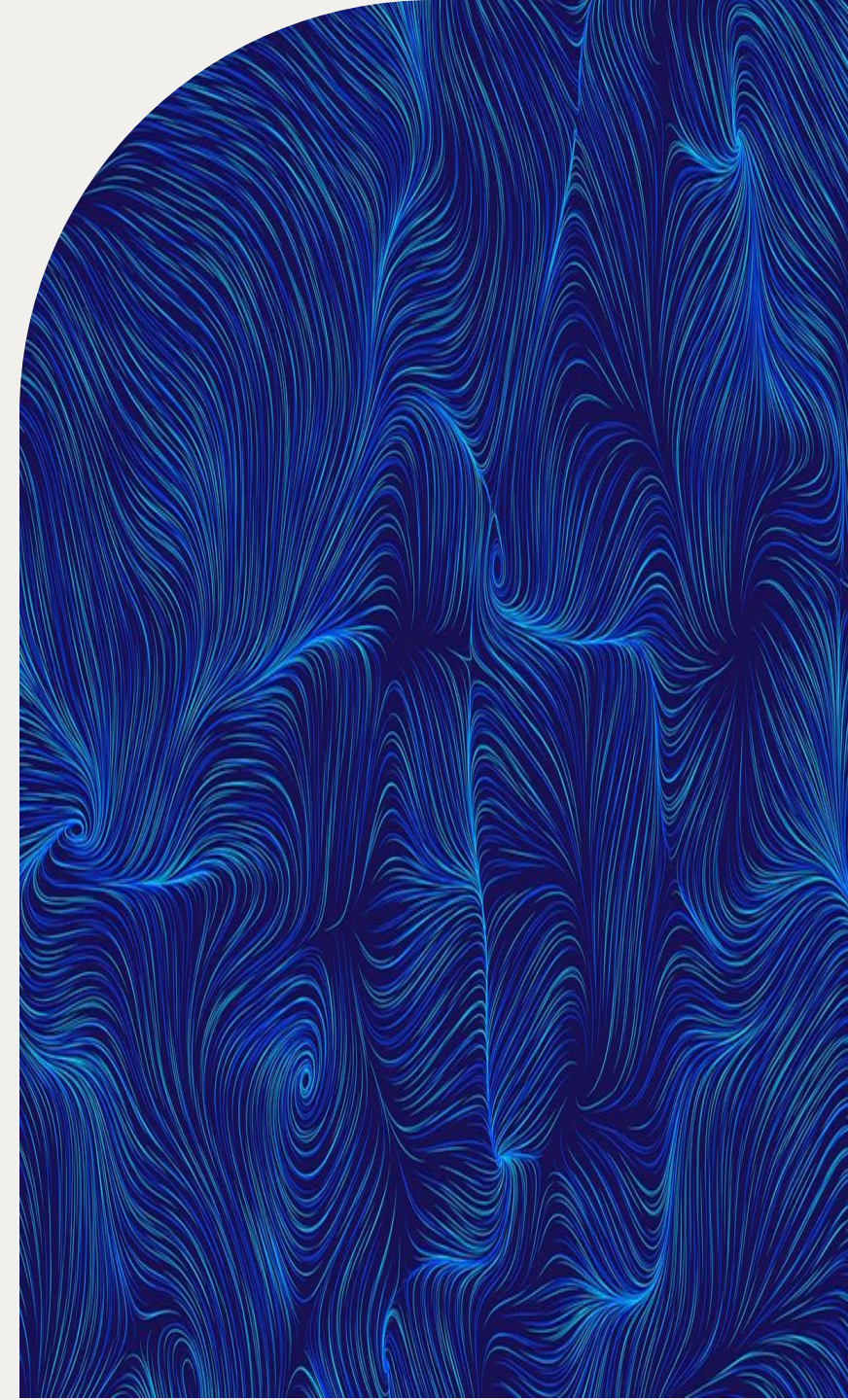
Territorial Land Acknowledgment

The BC Centre for Innovation and Clean Energy respectfully acknowledges that it operates on the traditional, ancestral, and unceded territories of the First Nations, Inuit, and Métis peoples.

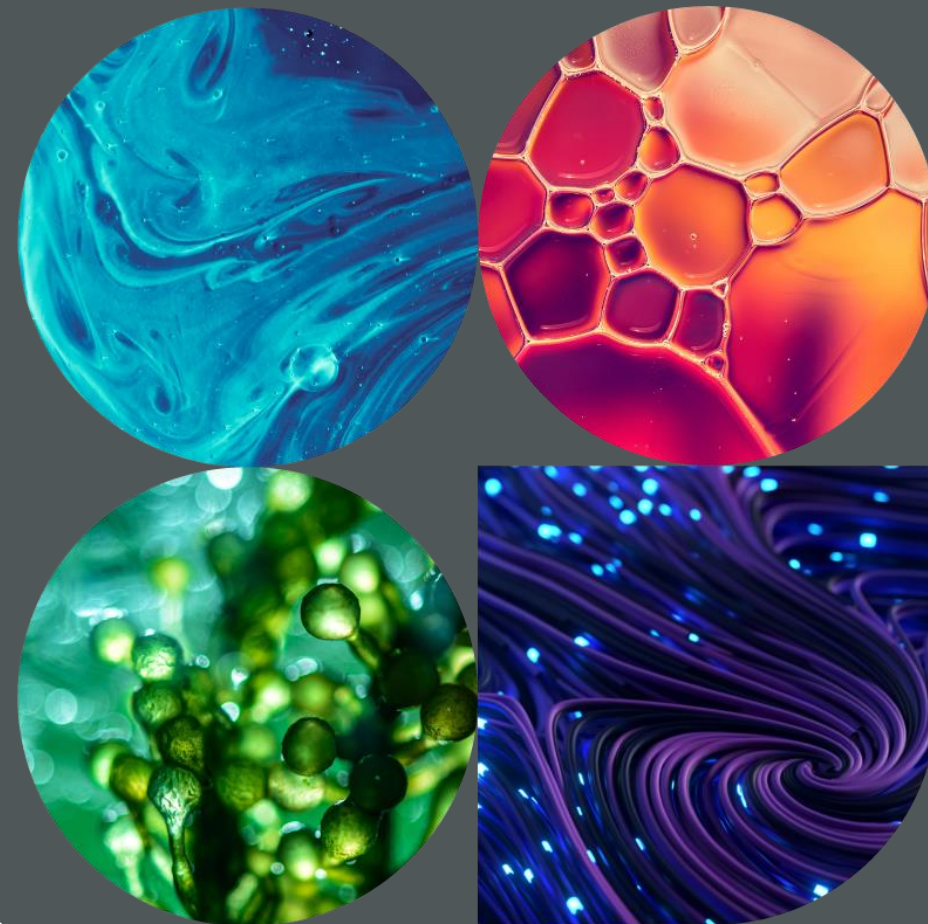


Focus of today's session:

- B.C. Centre for Innovation and Clean Energy (CICE)
- FortisBC's Clean Growth Innovation Fund (CGIF)
- Call for Innovation: Forestry Residue Management



Before we dive in....



Poll Question:
Where are you joining the webinar from?

Who is CICE?

- Independent not-for-profit organization
- Founded: fall 2021
- \$105M raised through public/private Member partnerships and grants:
 - Government of British Columbia
 - Shell Canada
 - NRCan (Government of Canada)



Why we exist

- Accelerate the world toward to a net zero carbon future: efficiently + effectively
- Mobilize industry, government, academia and Indigenous rights holders to expand and adopt clean energy innovation
- Fund the development and global scaling of made-in-B.C. clean energy technologies
- Build new member partnerships to unleash new decarbonization possibilities

Companies funded by CICE

 ANODYNE

 ATLAS POWER TECHNOLOGIES

 Cascadia SEAWEED

 Corvus Energy

 EKONA

 H2 PORTABLE
CLEAN POWER. ANYWHERE.

 HEXAGON PURUS

 HTEC
FUELING THE DRIVE TO HYDROGEN

 hydra

 HYDRON

 illumining power

 INVINITY ENERGY SYSTEMS

 LAFARGE

 MANGROVE LITHIUM
Unlocking a battery-powered future

 metro vancouver

 moment energy

 PARKLAND

 RAINHOUSE
MANUFACTURING CANADA LTD.

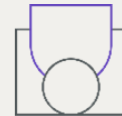
 TAKACHSR



LOW CARBON BIO & SYNTHETIC FUELS



BATTERY & ENERGY STORAGE



CARBON MANAGEMENT



LOW CARBON HYDROGEN

How CICE funds what is needed



BLUEPRINTS



BROAD
CONSULTATION



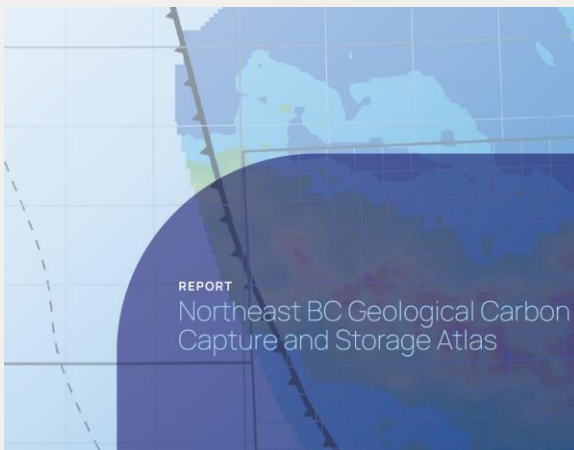
DEFINE DIRECTED
CALL



RECEIVE & EVALUATE
PROPOSALS



AWARD FUNDING





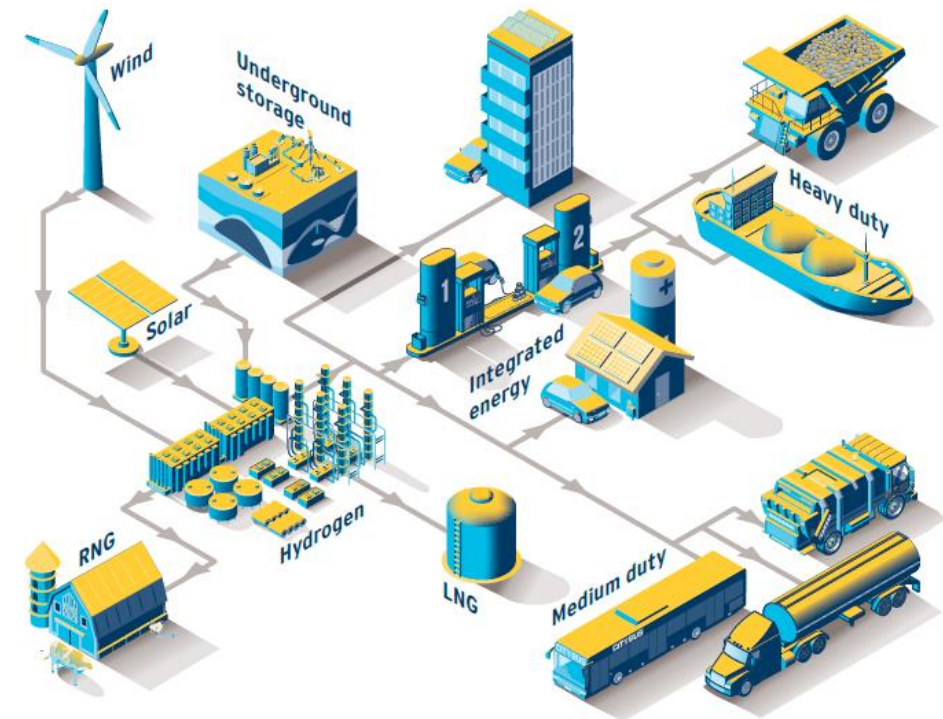
CICE and CGIF are funding up to \$6M to address the challenges associated with the collection, transport, and processing of forestry residues.

Clean Growth Innovation Fund (CGIF)

Responsive to Climate Policy and Customer Expectations

Accelerate innovation
with \$25m CGIF

- Development of new clean energy end-uses and sources
- Performance breakthroughs
- Cost reductions
- Drive growth



Key Areas of CGIF Investment

Low-carbon gases

- Biomethane (renewable natural gas)
- Hydrogen
- Syngas

Hydrogen blending

Hydrogen end-uses

- Boilers
- Furnaces
- Transportation

Carbon capture



Forestry Residue Management

A localized challenge

- Wildfires and associated emissions
- Thinning vs. slash
- Inaccessible, uneconomic, underutilized

Poll Question:

In high fire years, how many CO₂ emissions per year per wildfire in BC?



Forestry Residue Management

A unique opportunity

- Can't be solved by changing forestry residue practices alone
- Regional solutions
- Indigenous-led projects



Forestry Residue Management

Taking action

- Ideation – Gathering intelligence to identify gaps in tech and urgent problems
- Generation – Analyze requirements and translate to action
- Activation – Mobilize network, fund solutions
- Opportunity: **\$6 million** total in funding available



Question 1

- What makes a good project?

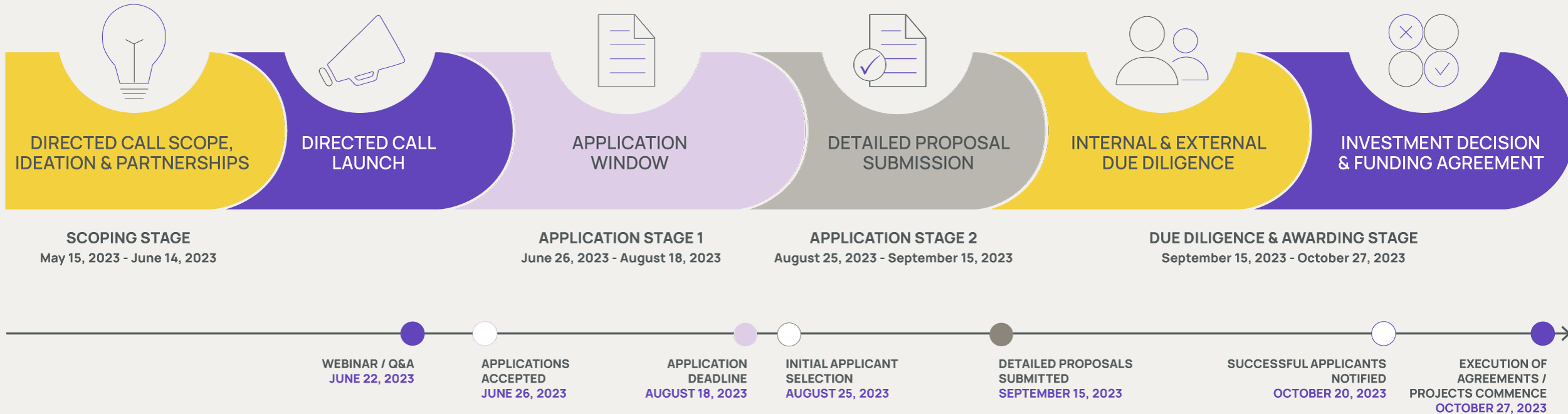
- Scalable innovation with the greatest impact on worldwide decarbonization
- Advancing solutions with a TRL of 4-9
- ESG and economic impact

Question 2

What types of solutions are eligible?

- Commercially viable pathways for collection, transportation, and management of forestry residue, including opportunities for slash and thinning by-products to reduce wildfire risks
- Diversification of utilization solutions to derive energy value from forestry residue
- Proposals that align forest management with carbon-based innovations

Question 3: Describe the application process & key dates



Question 4

What is the maximum amount of funding per project?

- There is no limitation on the amount of funding requested, however requests of \$750,000 or lower will be prioritized to accommodate multiple solutions.
- Between CICE and CGIF, we intend to fund several projects of different sizes for a total up to \$6M

Question 5

When can the funding be used?

- Contribution agreements for awarded projects will be put in place by October 27th, 2023
- Projects must start within 6 months of signing a contribution agreement
- The funding schedule will be specific to the project and aligned with the project spending and completion of pre-determined milestones

Question 6

How can the funding be used?

- Salaries, consultants & project management
- Demonstration: Sites, operating costs, pilot production
- Prototypes
- Integrating system components
- Scaling up manufacturing

Question 7

What is outside the funding scope?

- Day-to-day business operations
- Unrelated purchase capital equipment/leasehold improvements
- Furniture/equipment for routine business
- Advertising/forms of business promotion
- Human resource markups

Question 8

What are the rules on stacking limits and leveraging funds from other programs?

- CICE and CGIF funding can be stacked with funds from other programs and leveraged to obtain additional funding
- Projects with strong co-funding and commercial support will be prioritized

Question 9

Can organizations have more than one application or project funded with CICE or CGIF?

- Yes. One organization can apply for different projects and have multiple funded projects under CICE or CGIF programs.

Question 10

What are the main differences between CICE and CGIF's priorities

- CICE: Will prioritize BC-based innovators or projects and BC-based IP. Will not prioritize feasibility studies, FEED studies, or academic consortia.
- CGIF: Not mandatory to be BC-based, will consider feasibility studies, FEED studies and academic-led applications.

We're looking forward to hearing from you

Final Poll Question:
Are you applying to the Call for Innovation focused on forestry residue management?



Any other questions?

Email: FRM2023@cice.ca

More information: www.cice.ca



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